

평형수관리시스템 형식숭인증서

TYPE APPROVAL CERTIFICATE OF BALLAST WATER MANAGEMENT SYSTEM

REPUBLIC OF KOREA

이 증서는 국제해사기구(IMO) 결의서 MEPC 174(58)에 포함된 지침서의 상세요건에 따라서 아래의 평형수 관리시스템이 검사/시험되었음을 증명합니다. 다만, 이 증서는 아래에 기재된 평형수관리시스템에 한하여 유 효합니다.

requirements of the sp	ecifications c	ontained	in the Guidel	ines contained in
stem supplied by PAN	ASIA Co., Lt	d. Repub	lic of Korea	
tion <u>GloEn-PatrolTM Ba</u>	allast Water I	<u>Managem</u>	ent System(G	<u>loEn-P50~6000)</u>
stem manufactured by	PANASIA C	o., Ltd. F	Republic of Ko	orea
No. See the Annex to	the Certificate	:	날짜 date	29 Nov. 2010
by				
g No			날 da	. •
				50~6,000 m'/h
.서 사본은 선박검사 시 다면 그 형식승인증서도 al Certificate, should b t all times. A reference tion on board the vess	에 제시되어야 E 첨부되어야 e carried on e to the test sel. If the Ty	F 합니다. 합니다. board a protocol pe Appro	. 만일, 형식숭 vessel fitted and a copy c oval Certificat	인중서가 타 주관 with this Ballast of the test results e is issued based
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주관청 Administraion of	국토해양부 Ministry of	Land, Tr	ansport and M	Maritime Affairs
날짜 Dated this <u>29th.</u>	day_of	Novemb	er 2010	
	requirements of the sp. This certificate is varied as term supplied by PAN. Ition GloEn-Patrol Bastem manufactured by No. See the Annex to by No. See	requirements of the specifications of This certificate is valid only for the Stem supplied by PANASIA Co., Lt. tion GloEn-Patrol Ballast Water It stem manufactured by PANASIA Co. No. See the Annex to the Certificate by No. See the Annex to the C	requirements of the specifications contained. This certificate is valid only for the Balla stem supplied by PANASIA Co., Ltd. Republication GloEn-Patrol Mallast Water Managements and Ballast Water Managements are manufactured by PANASIA Co., Ltd. I No. See the Annex to the Certificate by No. In Paraly A Mallast Water Managements are to the Certificate by Mallast Water Managements and Panasian Annex to the Certificate by Mallast Water Managements and Panasian Annex to the Certificate by Mallast Water Managements and Panasian Annex to the Certificate by Mallast Mallas	No. See the Annex to the Certificate by g No. g

첨부 : 시험결과 성적서의 사본

Enc. Copy of the original test results.

평형수관리시스템 형식숭인증서의 추록 APPENDIX of the Certificate(Cert. No.: 2-2010)

1. GloEn-PatrolTM Ballast Water Management System은 명형수관리협약 지침서(G8) 제3부의 환경시험 사양 중 황천대비시험을 수행하지 않았음. 따라서, 동 시스템을 개방갑판 상 노출 부위에 설치하고자 하는 경우, 황천대비시험을 수행하여야 함.

Tests for protection against heavy seas for the GloEn-PatrolTM Ballast Water Management System have not been carried out in accordance with paragraph 3.12 of PART 3 of the Guidelines(G8) for approval of ballast water management systems of the BWMC(2004). In case of installing the above System in exposed areas on the open deck, therefore, tests for protection against heavy seas should be done in accordance with IP56 of publication IEC 529 or its equivalent.

2. 이 중서는 GloEn-PatrolTM Ballast Water Management System(GloEn-P50~6000)이 폭발의 위험성이 있는 구역에서 사용될 수 있다는 것을 보증하는 것은 아님

This certificate does not cover that the GloEn-Patrol TM Ballast Water Management System(GloEn-P50~6000) is approved for use in the explosive hazardous areas.

Official stamp



서명 Signed

주관청 Administration of h no

Ministry of Land, Transport and Maritime Affairs

날짜

Dated this 29th. day of November 2010

국토해양부

평형수관리시스템 형식숭인증서의 부록 ANNEX of the Certificate

동 시스템의 장비 및 조립 도면번호는 다음과 같음. Equipment/assembly drawing numbers of the System are as follows:

 $GP00/05/15/25/30/35/50/70/75/80/90/100/120/150/200/250/300/350/400/450/500/600L001 \sim 2, \\ GP05/25/50/75F001 \sim 2, \\ GP05/25/50U001 \sim 2, \\ GPCD1001 \sim 2. \\ GPXXE101 \sim 2$



평형수관리시스템 형식숭인증서

TYPE APPROVAL CERTIFICATE OF BALLAST WATER MANAGEMENT SYSTEM

대 한 민 국 REPUBLIC OF KOREA

이 중서는 국제해사기구(IMO) 결의서 MEPC 174(58)에 포함된 지침서의 상세요건에 따라서 아래의 평형수 관리시스텐이 검사/시험되었음을 증명합니다. 다만, 이 중서는 아래에 기재된 평형수관리시스템에 한하여 유 This is to certify that the Ballast Water Management System listed below has been examined and tested in accordance with the requirements of the specifications contained in the Guidelines contained in IMO resolution MEPC 174(58). This certificate is valid only for the Ballast Water Management System referred to below. 평형수관리시스템의 공급자 Ballast Water Management System supplied by PANASIA Co., Ltd. Republic of Korea Under type and model designation GloEn-PatrolTM Ballast Water Management System(GloEn-P50~6000) and incorporating: 평형수관리시스템의 제조자 Ballast Water Management System manufactured by PANASIA Co., Ltd. Republic of Korea to equipment/assembly drawing No. See the Annex to the Certificate date 23 Nov. 2009 기타 장비의 제조자 Other equipment manufactured by_ 날짜 장비 및 조립도면번호 date to equipment/assembly drawing No.___ 50~6,000 m3/h Treatment Rated Capacity 이 형식승인증서의 사본은 평형수관리시스템을 설치한 선박에 항상 비치하여야 합니다. 관련 형식숭인시험 계획서와 형식승인시험결과보고서 사본은 선박검사 시에 제시되어야 합니다. 만일, 형식승인증서가 타 주관 청의 승인에 기초해서 발행되었다면 그 형식승인증서도 첨부되어야 합니다. A copy of this Type Approval Certificate, should be carried on board a vessel fitted with this Ballast Water Management System at all times. A reference to the test protocol and a copy of the test results should be available for inspection on board the vessel. If the Type Approval Certificate is issued based on approval by another Administration, reference to that Type Approval Certificate shall be made. 숭인제한 조건은 이 증서의 추록에 기술되어 있습니다. Limiting Conditions imposed are described in the appendix to this document.

Official stamp



서명 Signed

주관청

Administraion of

Ministry of Land, Transport and Maritime Affairs

Kyu Sast

날짜

Dated this 04th.

day of December 2009

첨부: 시험결과 성적서의 사본

Enc. Copy of the original test results.

평형수관리시스템 형식숭인중서의 추록 APPENDIX of the Certificate(Cert. No.: 3-2009)

1. GloEn-PatrolTM Ballast Water Management System은 평형수관리협약 지침서(G8) 제3부의 환경시험 사양 중 황천대비시험을 수행하지 않았음. 따라서, 동 시스템을 개방갑판 상 노출 부위에 설치하고자 하는 경우, 황천대비시험을 수행하여야 함.

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2. 본 증서는 동 시스템이 폭발의 위험성이 있는 구역에서 사용할 수 있음을 보증하는 것은 아님

The GloEn-PatrolTM Ballast Water Management System is not approved for use in the explosive hazardous areas.

Official stamp



서명 Signed

주관청

Administraion of

날짜

Dated this 04th.

Kimkyu Gob

Ministry of Land, Transport and Maritime Affairs

day of December 2009

평형수관리시스템 형식숭인중서의 부록 ANNEX of the Certificate

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